

WHAT IS CLAIMED IS:

- 1 1. An electron beam trajectory controlling device, comprising:
2 a main deflection section having a first main coil and defining a first path and
3 being configured to control a trajectory of an electron traveling along the first path, the main
4 deflection section including a first auxiliary coil provided proximate the first main coil; and
5 a minor deflection section provided adjacent to the main deflection section
6 and having a first minor coil that is coupled to the first auxiliary coil, the minor deflection
7 section defining a second electron path that is aligned to the first path, the minor deflection
8 section cooperating with the main deflection section to control the trajectory of the electron.